TET Index — 2010-2011

ARTICLE INDEX

2010 Super Mileage Challenge, September 2010, pp. 36-37.

2011 Directory of ITEEA Institutional Members, April 2011, pp. 36-39.

2011 Leaders to Watch, March 2011, pp. 32-35.

2011 Professional Recognition Awards, May/June 2011, pp. 36-37.

Advancing STEM Education: A 2020 Vision, September 2010, pp. 30-35.

Being a Curriculum Specialist: Engineering byDesign™ Curriculum Specialists Provide Insight, October 2010, pp. 36-38.

Beyond Smash and Crash: Part Two, December/January 2011, pp. 25-33.

Bingo! Let's Learn About Energy, April 2011, pp. 25-29.

Bridges With Trigonometry Equals Engineering Achievement, February 2011, pp. 30-34.

Characteristics of a Model Technology Education Teacher, The, May/June 2011, pp. 25-33.

Crash Test Kids: Stealth Learning at its Best, May/June 2011, pp. 6-8.

Drafting with Design in Mind, February 2011, pp. 5-8.

Effects of Gender Grouping on Student Curiosity in Modular Technology Education Laboratories, The November 2010, *TETe*.

Engineer's Notebook – A Design Assessment Tool, April 2011, pp. 30-35.

Excellence: The Importance of Vision and Work Ethic, October 2010, pp. 28-31.

GRIDc Renewable Energy Data Streaming Into Classrooms, November 2010, pp. 30-35.

Hydrogen Fuel Cells: Part of the Solution, October 2010, pp. 22-27.

Improve or Perish, Revisited—Again, March 2011, pp. 24-28.

K-12 Engineering Education Standards: Opportunities and Barriers, February 2011, pp. 21-29.

Minneapolis Conference Exhibitors, February 2011, pp. 35-37.

Minneapolis Conference Photos, May/June 2011, pp. 38-39.

Minneapolis Conference Preview (Insert), December/January 2011, pp. 17-20.

Nanosolar Technology Energizes Student Learning, October 2010, pp. 14-18.

Necessity of Change, The (Editorial), September 2010, pp. 7-8.

New York State Technology Education: History, the Current State of Affairs, and the Future, December/January 2011, pp. 34-38.

Park Forest Middle School STEM Education Fair 2010, October 2010, pp. 32-35.

Preferences of Male and Female Students for TSA Competitive Events, September 2010, pp. 19-26.

President's Message, March 2011, pp. 29-31.

Prospecting for Wind, May/June 2011, pp. 18-24.

"Real World" Experiences Bring T and E Alive, April 2011, pp. 19-24.

Teaching Technology and Engineering, November 2010, pp. 15-19.

Understanding Designs of Mechanical Systems, May/June 2011 *TETe*.

Understanding Engineering byDesign™ Perceptions, December/January 2011, pp. 21-24.

Understanding STEM: Current Perceptions, March 2011, pp. 5-9.

Using Simulation to Introduce Engineering Concepts, November 2010, pp. 20-26.

CLASSROOM CHALLENGE

Backpack Design Challenge, The, November 2010, pp. 12-14.

Design a Sculpting Material, December/January 2011, pp. 14-16.

First Aid Challenge, March 2011, pp. 18-20.

House on the Hill Challenge, The, May/June 2011, pp. 3-5.

Intersection Challenge, The, February 2011, pp. 18-20.

Rooftop Garden Design Challenge, September 2010, pp. 16-18.

Smart Clothing Challenge, April 2011, pp. 16-18.

Window-Washing Challenge, A, October 2010, pp. 11-13.

RESOURCES IN TECHNOLOGY

Breathing Like a Fish, October 2010, pp. 6-10.

Energy Decisions: Is Solar Power the Solution? February 2011, pp. 9-14.

Going Green with Electric Vehicles, November 2010, pp. 5-11.

Nanotechnology: The Incredible Invisible World, March 2011, pp. 10-17.

Technology and Engineering: Sanitary and Storm Water Treatment, April 2011, pp. 4-12.

Transportation Technologies: Rail Transport and Logistics, May/June 2011, pp. 12-17.

VisPort Project, The: Visualization of Port Logistics, December/January 2011, pp. 4-10.

Wind Power: An Emerging Energy Resource, September 2010, pp. 9-15.

DESIGN SQUAD

Harmless Holder Hands-On Challenge, April 2011, pp. 13-15.

Helping Hand Hands-On Challenge, March 2011, pp. 21-23.

Kick Stick Hands-On Challenge, December/January 2011, pp. 11-13.

On Target Hands-On Challenge, February 2011, pp. 15-17.

Paper Table Hands-On Challenge, October 2010, pp. 19-21.

Pop Fly Hands-On Challenge, September 2010, pp. 27-29.

Sky Glider Hands-On Challenge, May/June 2011, pp. 9-11.

TET Index — 2010-2011

ARTICLE INDEX

2010 Super Mileage Challenge, September 2010, pp. 36-37.

2011 Directory of ITEEA Institutional Members, April 2011, pp. 36-39.

2011 Leaders to Watch, March 2011, pp. 32-35.

2011 Professional Recognition Awards, May/June 2011, pp. 36-37.

Advancing STEM Education: A 2020 Vision, September 2010, pp. 30-35.

Being a Curriculum Specialist: Engineering byDesign™ Curriculum Specialists Provide Insight, October 2010, pp. 36-38.

Beyond Smash and Crash: Part Two, December/January 2011, pp. 25-33.

Bingo! Let's Learn About Energy, April 2011, pp. 25-29.

Bridges With Trigonometry Equals Engineering Achievement, February 2011, pp. 30-34.

Characteristics of a Model Technology Education Teacher, The, May/June 2011, pp. 25-33.

Crash Test Kids: Stealth Learning at its Best, May/June 2011, pp. 6-8.

Drafting with Design in Mind, February 2011, pp. 5-8.

Effects of Gender Grouping on Student Curiosity in Modular Technology Education Laboratories, The November 2010, *TETe*.

Engineer's Notebook – A Design Assessment Tool, April 2011, pp. 30-35.

Excellence: The Importance of Vision and Work Ethic, October 2010, pp. 28-31.

GRIDc Renewable Energy Data Streaming Into Classrooms, November 2010, pp. 30-35.

Hydrogen Fuel Cells: Part of the Solution, October 2010, pp. 22-27.

Improve or Perish, Revisited—Again, March 2011, pp. 24-28.

K-12 Engineering Education Standards: Opportunities and Barriers, February 2011, pp. 21-29.

Minneapolis Conference Exhibitors, February 2011, pp. 35-37.

Minneapolis Conference Photos, May/June 2011, pp. 38-39.

Minneapolis Conference Preview (Insert), December/January 2011, pp. 17-20.

Nanosolar Technology Energizes Student Learning, October 2010, pp. 14-18.

Necessity of Change, The (Editorial), September 2010, pp. 7-8.

New York State Technology Education: History, the Current State of Affairs, and the Future, December/January 2011, pp. 34-38.

Park Forest Middle School STEM Education Fair 2010, October 2010, pp. 32-35.

Preferences of Male and Female Students for TSA Competitive Events, September 2010, pp. 19-26.

President's Message, March 2011, pp. 29-31.

Prospecting for Wind, May/June 2011, pp. 18-24.

"Real World" Experiences Bring T and E Alive, April 2011, pp. 19-24.

Teaching Technology and Engineering, November 2010, pp. 15-19.

Understanding Designs of Mechanical Systems, May/June 2011 *TETe*.

Understanding Engineering byDesign™ Perceptions, December/January 2011, pp. 21-24.

Understanding STEM: Current Perceptions, March 2011, pp. 5-9.

Using Simulation to Introduce Engineering Concepts, November 2010, pp. 20-26.

CLASSROOM CHALLENGE

Backpack Design Challenge, The, November 2010, pp. 12-14.

Design a Sculpting Material, December/January 2011, pp. 14-16.

First Aid Challenge, March 2011, pp. 18-20.

House on the Hill Challenge, The, May/June 2011, pp. 3-5.

Intersection Challenge, The, February 2011, pp. 18-20.

Rooftop Garden Design Challenge, September 2010, pp. 16-18.

Smart Clothing Challenge, April 2011, pp. 16-18.

Window-Washing Challenge, A, October 2010, pp. 11-13.

RESOURCES IN TECHNOLOGY

Breathing Like a Fish, October 2010, pp. 6-10.

Energy Decisions: Is Solar Power the Solution? February 2011, pp. 9-14.

Going Green with Electric Vehicles, November 2010, pp. 5-11.

Nanotechnology: The Incredible Invisible World, March 2011, pp. 10-17.

Technology and Engineering: Sanitary and Storm Water Treatment, April 2011, pp. 4-12.

Transportation Technologies: Rail Transport and Logistics, May/June 2011, pp. 12-17.

VisPort Project, The: Visualization of Port Logistics, December/January 2011, pp. 4-10.

Wind Power: An Emerging Energy Resource, September 2010, pp. 9-15.

DESIGN SQUAD

Harmless Holder Hands-On Challenge, April 2011, pp. 13-15.

Helping Hand Hands-On Challenge, March 2011, pp. 21-23.

Kick Stick Hands-On Challenge, December/January 2011, pp. 11-13.

On Target Hands-On Challenge, February 2011, pp. 15-17.

Paper Table Hands-On Challenge, October 2010, pp. 19-21.

Pop Fly Hands-On Challenge, September 2010, pp. 27-29.

Sky Glider Hands-On Challenge, May/June 2011, pp. 9-11.

AUTHOR INDEX

Beddow, Terry; Understanding Engineering byDesign™ Perceptions, December/January 2011.

Bell, Thomas P.; DTE President's Message, March 2011.

Brown, Ryan, Brown, Joshua, Reardon, Kristin, & Merrill, Chris; Understanding STEM: Current Perceptions, March 2011.

Busby, Joe R., DTE & Altork, Linh Nguyen; Hydrogen Fuel Cells: Part of the Solution, October 2010.

Bybee, Rodger W.; Advancing STEM Education: A 2020 Vision, September 2010.

Bybee, Rodger W.; K-12 Engineering Education Standards: Opportunities and Barriers, February 2011.

Childress, Vincent W.; Energy Decisions: Is Solar Power the Solution? February 2011.

Daugherty, Michael K. & Carter, Vinson; Drafting with Design in Mind, February 2011.

Deal, Walter F.; Going Green with Electric Vehicles, November 2010.

Deal, Walter F.; Wind Power: An Emerging Energy Resource, September 2010.

de la Paz, Katie; The Necessity of Change (Editorial), September 2010.

DeLuca, V. William, Carpenter, Pam, & Lari, Nasim; GRIDc Renewable Energy Data Streaming Into Classrooms, November 2010.

Derby, Melanie & DeCesare, Carl; Bingo! Let's Learn About Energy, April 2011.

Detellis, Phil; New York State Technology Education: History, the Current State of Affairs, and the Future, December/January 2011.

de Vries, Marc J., Burghardt, David, & Hacker, Michael; Teaching Technology and Engineering, November 2010.

Draper, Sonja R., The Effects of Gender Grouping on Student Curiosity in Modular Technology Education Laboratories, November 2010.

Feinberg, Lauren; *Harmless Holder* Hands-On Challenge, April 2011, pp. 13-15.

Feinberg, Lauren; *Helping Hand* Hands-On Challenge, March 2011.

Feinberg, Lauren; *Kick Stick* Hands-On Challenge, December/January 2011.

Feinberg, Lauren; *On Target* Hands-On Challenge, February 2011.

Feinberg, Lauren; *Paper Table* Hands-On Challenge, October 2010.

Feinberg, Lauren; *Pop Fly* Hands-On Challenge, September 2010.

Feinberg, Lauren; *Sky Glider* Hands-On Challenge, May/June 2011.

Gathing, Ahmed L.; Bridges With Trigonometry Equals Engineering Achievement, February 2011.

Hill, Roger B.; Excellence: The Importance of Vision and Work Ethic, October 2010.

Hughes, Bill; Park Forest Middle School STEM Education Fair 2010, October 2010.

Katsioloudis, Petros J.; Breathing Like a Fish, October 2010.

Katsioloudis, Petros J. & Watson, Ginger S.; The VisPort Project: Visualization of Port Logistics, December/January 2011.

Kaufman, Andrew R., Warner, Scott A. & Buechele, Jessica R.; The Characteristics of a Model Technology Education Teacher, May/June 2011.

Kelley, Todd R.; Engineer's Notebook – A Design Assessment Tool, April 2011.

Lang, Aaron B.; Transportation Technologies: Rail Transport and Logistics, May/June, 2011.

Marshall, Kirk; Crash Test Kids: Stealth Learning at its Best, May/June 2011.

McCarthy, Ray & Slater, Roy; Beyond Smash and Crash: Part Two, December/January 2011.

Meade, Shelli; Being a Curriculum Specialist: Engineering byDesign™ Curriculum Specialists Provide Insight, October 2010.

Mitts, Charles S. & Haynie, W. J., III; Preferences of Male and Female Students for TSA Competitive Events, September 2010.

Moye, Johnny J & Katsioloudis, Petros J.; Improve or Perish, Revisited—Again, March 2011.

Phelps, Elizabeth & Ernst, Jeremy V.; Nanosolar Technology Energizes Student Learning, October 2010.

Roberts, Amanda S.; Nanotechnology: The Incredible Invisible World, March 2011, pp. 10-17.

Roberts, Amanda S.; Technology and Engineering: Sanitary and Storm Water Treatment, April 2011.

Roman, Harry T.; The Backpack Design Challenge, November 2010.

Roman, Harry T.; Design a Sculpting Material, December/January 2011.

Roman, Harry T.; First Aid Challenge, March 2011.

Roman, Harry T.; The House on the Hill Challenge

Roman, Harry T.; The Intersection Challenge, February 2011.

Roman, Harry T.; Rooftop Garden Design Challenge, September 2010.

Roman, Harry T.; Smart Clothing Challenge, April 2011.

Roman, Harry T.; A Window-Washing Challenge, October 2010.

Rust, Terrie; "Real World" Experiences Bring T and E Alive, April 2011.

Stier, Kenneth & Laingen, Mark; Using Simulation to Introduce Engineering Concepts, November 2010.

Swapp, Andy, Schreuders, Paul, & Reeve, Edward, DTE; Prospecting for Wind, May/June 2011.

Thompson, Ezra & Mativo, John: Understanding Designs of Mechanical Systems, May/June 2011 *TETe*.

2011 Professional Recognition Awards

Special Recognition Awards

Academy of Fellows ..... P. John Williams
Award of Distinction ..... David Burghardt
Special Recognition Award ..... Andy Stephenson, DTE
Lockette/Monroe Humanitarian Award ..... Thomas Loveland
Prakken Professional Cooperation Award ..... Patti Curtis
Wilkinson Meritorious Service Award ..... William Paige, DTE
Outstanding Sales Representative Award ..... John B. Heitman
Presidential Citation ..... Gary Gronquist and Mike Lindstrom
Public Understanding of Technology and Engineering Award ..... Joyce Winterton

Outstanding Affiliate Representatives

Ken Amos – Indiana
Jared Bitting – Pennsylvania
James Boe – North Dakota
Nathan Bush – Michigan
Vinson Carter – Arkansas
Joel Ellinghuysen – Minnesota
Todd Heslet – Ohio
Steve McNaught – Missouri
Kenneth Zushma – New Jersey

Distinguished Technology Educators

Jared P. Bitting
James Boe
Terrie Rust
Christie Schmitt

Scholarships and Grants

Maley/FTEE Teacher Scholarship ..... Kurt Twining
PITSCO/Hearlihy FTEE Grant ..... Jason R. Buchanan
Greer/FTEE Grant ..... Lynn Lovett
FTEE Undergraduate Scholarship ..... Allen J. Williams
Litherland/FTEE Undergraduate Scholarship ..... Rachel Barringer

Maley Outstanding Graduate Student Citation

Jason R. Buchanan, Old Dominion University
Brian Jernigan, The University of Maryland, Eastern Shore
Matthew Lammi, Utah State University
Nathan B. Nadelen, State University of New York College at Oswego
Sabrina Phillips, Illinois State University
Alexander John William Surra, Millersville University

21st Century Fellows

Vinson Carter, University of Arkansas
Paul W. Camick, DeKalb County School System, GA
Johnny J Moye, Chesapeake Public Schools, VA
Patricia Watson, Virginia Tech
Sabrina Provencher, Virginia Tech
Ryan A. Brown, Illinois State University

Program Excellence Award Recipients

Colorado ..... Cherokee Trail High School
Connecticut ..... Daniel Hand High School
Delaware ..... Mount Pleasant High School
Delaware ..... P. S. DuPont STEM Learning Center
Florida ..... Freedom Elementary
Georgia ..... Dunwoody High School
Illinois ..... Wheeling High School
Indiana ..... Stonybrook Middle School/Walker Career Center
Kansas ..... Southeast of Saline High School
Maine ..... Wiscasset High School
Maryland ..... Charles Herbert Flowers High School
Maryland ..... Lockerman Middle School
Massachusetts ..... Ephraim Curtis Middle School
Montana ..... Bozeman High School
North Carolina ..... Kiser Middle School
North Dakota ..... North Central Schools
North Dakota ..... Wimbledon-Courtenay Schools
Ohio ..... Olentangy Liberty High School
Oklahoma ..... Byrd Middle School
Pennsylvania ..... Park Forest Middle School
Pennsylvania ..... Southern Lehigh High School
Utah ..... Hunter Junior High School
Virginia ..... Francis Scott Key Middle School
Virginia ..... Grassfield High School
Virginia ..... J. B. Watkins Elementary School
Wisconsin ..... Pulaski High School

Teacher Excellence Award Recipients

Steve Ballard – Montgomery, AL
Victor Dreier – Fayetteville, AR
Diane Gaston – Denver, CO
Don Schlater – Lewes, DE
Cheryl McGrew – Bradenton, FL
William G. Smith – Miami, FL
Tim Schmitt – Stone Mountain, GA
Stephen Meyers – Rexburg, ID
Robert Holquist – Chatham, IL
Virginia King – Evansville, IN
Marquis Songer – Terre Haute, IN
Randall Robertson – West Branch, IA
Jason Franzenburg – Davenport, IA
Bruce Munger – Mount Desert, ME
Andrew Davidson – Scarborough, ME
Ruth Akers – Baltimore, MD
Aaron Gray – Ellicott City, MD
Katie Hammack – Mount Airy, MD
Scott Jewell – Ipswich, MA
Nathan Bush – Saline, MI
Joel Ellinghuysen – Lewiston, MN
Michael Sandell – Lindstrom, MN
Beth Cobbs – Batesville, MS
Kimberly Forbes – High Point, NC
Bruce Hase – Linton, ND
Kenneth Carmack – Fairview, OK
John Hoch – Boyertown, PA
Joanne M. Trombley – Westchester, PA
Jeffrey Macari – Smithfield, RI
Eric Stansberry – Chattanooga, TN
Brent Blackburn – Farmington, UT
Alicia Spjute – Salt Lake City, UT
Lance Baldwin – Chantilly, VA
Chuchun Tsai – Fairfax, VA
Elizabeth Kirk – Midlothian, VA
Gregory S. Groom – Lake Geneva, WI

TECA COMPETITIVE EVENT RESULTS

Communication Contest
1) Brigham Young University
2) The College of New Jersey
3) California University of PA

Manufacturing Contest
1) Pittsburg State University
2) Fort Hays State University
3) California University of PA

Problem Solving Contest
1) St. Petersburg College
2) Pittsburg State University
3) Brigham Young University

Robotics Contest
1) California University of PA
2) Brigham Young University

Teaching Lesson Contest
1) Brigham Young University
2) Fort Hays State University
3) St. Petersburg College

Technology Challenge
1) Ball State University
2) Brigham Young University
3) California University of PA

Transportation Contest
1) California University of PA
2) St. Petersburg College
3) Fort Hays State University

TECA Advisor of the Year: Joe Busby, DTE
TECA Award of Distinction: Wade Thatcher
TECA Membership Award: Pittsburg State University
TECA Outstanding Chapter Award: University of Wyoming - Casper

VISIT www.KELVIN.COM
FOR OUR BIG CATALOG!
KELVIN®
EDUCATIONAL
KELVIN® Experimental Wind Turbine
Students have the opportunity to test rotor and blade designs. Options include a motor or generator gearbox; assembled or as kits. Vary the rotor sweep, blade size and blade shape to change the electrical output. Test the rotors output with the included multimeter or see how many LED's the turbine will light. Fold a cardstock model house and create an LED circuit to plug into the wind turbine.
#842267
AS LOW AS $99.95
NEW!
Stands over 45" high from Base to Top of Blade!
Design and Test Turbine Blades for the Most Electronic Output, Generators, and Gearboxes
FIND MORE GREEN ACTIVITIES IN OUR ONLINE CATALOGS!
KELVIN®
Economy Solar Racer™
Kit includes 200mA/2V DC solar cell, DC solar motor, wood or corrugated plastic base for body, gear wheels with plastic axles, and DesignGrid™ sheets. Requires soldering and a light source.
Wood Base Kit, 841236, $8.95 or $8.75 ea./10+ or $8.45 ea./25+
Bulk Pack for 25 Students, 841415, $165
AS LOW AS $6.60 PER STUDENT
KELVIN®
Build Your Own® Fuel Cell Racer
KELVIN® is pleased to offer the first U.S. contest for design, testing, improving and racing fuel cell cars!
#842118
AS LOW AS $49.95
KELVIN® carries a wide variety of products including: comprehensive activities, labs, software, hardware, kits, building materials (wood, foam, metal, plastic), electronics components, tools and much more!